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Sheet 1 of 1

Substitute Form PTO 1449 (Modified)

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.
06497-013002

Application No.
10:048,186

Applicant
James C. Liao

Filing Date
January 25, 2002

Group Art Unit
1652

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
RP	AA	5,429,939	07-04-95	Misawa et al.	435	67	
RP	AB	5,530,189	06-25-96	Ausich et al.	800	205	
RP	AC	5,744,341	04-28-98	Cunningham, Jr. et al.	435	189	
RP	AD	5,906,925	05/25/99	Liao	435	72	
	AE						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
	AF						Yes No

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
RP	AG	Campos-Garcia et al., "The <i>pseudomonas aeruginosa</i> <i>rhlG</i> gene encodes an NADPH-dependent β -Ketoacyl which is specifically involved in rhamnolipid synthesis", <i>Journal of Bacteriology</i> 180 (17):4442-4451 (1998)
RP	AH	Farmer et al., "Reprogramming the regulatory circuits of <i>Escherichia coli</i> ", Abstract 083., American Chemical Society National Meeting, Boston, MA August 23-27 (1998)
RP	AI	Farmer et al., "Reprogramming the regulatory circuits of <i>Escherichia coli</i> ", Abstract 094., American Chemical Society National Meeting, Anaheim, CA March 21-25 (1999)
RP	AJ	Feng et al., "Role of phosphorylated metabolic intermediates in the regulation of glutamine synthetase synthesis in <i>Escherichia coli</i> ", <i>Journal of Bacteriology</i> 174(19):6061-6070 (1992)
RP	AK	Haldimann et al., "Transcriptional regulation of the <i>Enterococcus faecium</i> BM4147 vancomycin resistance gene cluster by the VanS-VanR two-component regulatory system in <i>Escherichia coli</i> K-12", <i>Journal of Bacteriology</i> 179(18):5903-5913 (1997)
RP	AL	McCleary et al., "Acetyl phosphate a global signal in <i>Escherichia coli</i> ?", <i>Journal of Bacteriology</i> 175(10):2793-2798 (1993)
RP	AM	McCleary et al., "Acetyl phosphate and the activation of two-component response regulators", <i>Journal of Biological Chemistry</i> 269(50):31567-31572 (1994)
RP	AN	Misawa et al., "Elucidation of the <i>Erwinia uredovora</i> carotenoid biosynthetic pathway by functional analysis of gene products expressed in <i>Escherichia coli</i> ", <i>Journal of Bacteriology</i> 172(12):6704-6712 (1990)
RP	AO	Ruther et al., "Production of zeaxanthin in <i>Escherichia coli</i> transformed with different carotenogenic plasmids", <i>Appl Microbiol Biotechnol</i> 48:162-167 (1997)
RP	AP	Schroeckh et al., "Formation of recombinant proteins in <i>Escherichia coli</i> under control of a nitrogen regulated promoter at low and high cell densities", <i>Journal of Biotechnology</i> 49:45-58 (1996)

Examiner Signature

Rebecca Pouty

Date Considered

2/18/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Filing Date January 25, 2002	Group Art Unit 1652

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RP	AQ	Scroeckh et al., "The use of elements of the <i>E. coli</i> Ntr-system for the design of an optimized recombinant expression system for high cell density cultivations", <i>Journal of Biotechnology</i> 75:241-250 (1999)
RP	AR	Shin et al., "Modulation of flagellar expression in <i>Escherichia coli</i> by acetyl phosphate and the osmoregulator OmpR", <i>Journal of Bacteriology</i> 177(16):4696-4702 (1995)
RP	AS	Sprenger et al., "Identification of a thiamin-dependent synthase in <i>Escherichia coli</i> required for the formation of the 1-deoxy-D-xylulose 5-phosphate precursor to isoprenoids, thiamin, and pyridoxol", <i>Proc. Natl. Acad. Sci USA</i> 94:12857-12862 (1997)
RP	AT	Wang et al., "Engineered Isoprenoid pathway enhances Astaxanthin production in <i>Escherichia coli</i> ", <i>Biotechnology and Bioengineering</i> 62(2):235-241 (1999)

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U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BA						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	BB							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
RF	BC	Alex and Simon, "Protein histidine kinases and signal transduction in prokaryotes and eukaryotes", <i>Trends in Genetics</i> 10(4):133-138 (1994)
RF	BD	Aristidou et al., "Metabolic engineering of <i>Escherichia coli</i> to enhance recombinant protein production through acetate reduction", <i>Biotechnol. Prog.</i> 11:475-478 (1995)
RF	BE	Bauer et al., "Improved expression of human interleukin-2 in high-cell-density fermentor cultures of <i>Escherichia coli</i> K-12 by a phosphotransacetylase mutant", <i>Appl Environ Microbiol.</i> 56(5):1296-1302 (1990)
RF	BF	DeWitt et al., This Month in <i>Nature Biotechnology</i> , <i>Nature Biotechnology</i> 18:480 (2000)
RF	BG	Diez-Gonzalez and Russell, "The ability of <i>Escherichia coli</i> O157:H7 to decrease its intracellular pH and resist the toxicity of acetic acid", <i>Microbiology</i> 143:1175-1180 (1997)
RF	BH	Farmer and Liao, "Improving lycopene production in <i>Escherichia coli</i> by engineering metabolic control," <i>Nature Biotechnol.</i> 18:533-537 (2000)
RF	BI	Hakenbeck and Stock, "Analysis of Two-Component Signal Transduction Systems Involved in Transcriptional Regulation", <i>Methods in Enzymology</i> 273:281-301 (1996)
RF	BJ	Parkinson and Kofoid, "Communication Modules in Bacterial Signaling Proteins", <i>Annu. Rev. Genet.</i> 26:71-112 (1992)
RF	BK	Sevenich et al., "DNA binding and oligomerization of NtrC studied by fluorescence anisotropy and fluorescence correlation spectroscopy", <i>Nucleic Acid Res.</i> 26(6):1373-1381 (1998)

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	CH						
	CI						
	CJ						
	CK						

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							Yes	No
	CL							
	CM							
	CN							
	CO							
	CP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
RP	CQ	Reitzer et al., "Expression of <i>glnA</i> in <i>Escherichia coli</i> is regulated at tandem promoters", <i>Proc. Natl. Acad. Sci. USA</i> 82:1979-1983 (1985)
RP	CR	Wanner et al., "Involvement of Phosphotransacetylase, Acetate Kinase, and Acetyl Phosphate Synthesis in Control of the Phosphate Regulon in <i>Escherichia coli</i> ", <i>J. Bacteriol.</i> 174(7):2124-2130 (1992)
	CS	
	CT	

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